In this paper, one of the most important phases of Software development that is versioning, which is done through version control systems, is being presented. The current methodologies used in distributed version management, some aspects needed in the working of Version Control Systems, the prior work that is done in this field of technology are discussed. A proposed algorithmic approach for knowing the dependency of linkages of classes, interfaces and methods in object-oriented technology amid versions of a program is also presented. The aim of this approach is to decrease errors and inaccuracies during the phase of software development in distributed version control systems.

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Index Terms

Computer Science

Software Systems
### Keywords

| Tracking repository changes | Differences based on working aspects of programs |
Identifying the Dissimilarities based on Working of Programs among versions in DVCS (Distributed Version Control Systems)